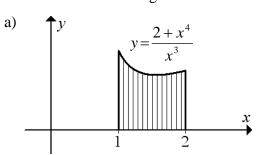
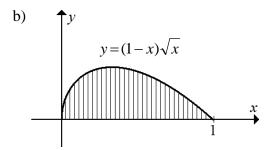
Terceira Lista de Exercícios - Matemática II/Contábeis - Prof. Luiz Felipe - 2016/1º

1) Encontre a área das regiões indicadas:





- 2) Esboce a região indicada e calcule sua área:
 - a) Região entre o eixo x e a parábola $y = x^2$, de x = -1 até x = 2.
 - b) Região entre o eixo x e a parábola $y = -x^2 + 4x 3$, de x = 2 até x = 3.
- 3) Calcule:

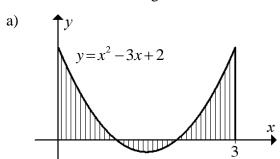
a)
$$\int_0^3 \frac{3}{\sqrt{3+2t}} dt$$

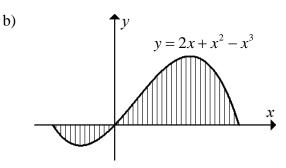
b)
$$\int_{2}^{3} \frac{s}{(s-1)^{3}} ds$$

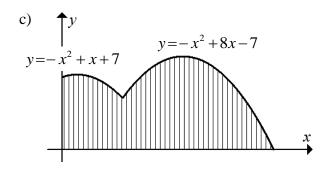
d)

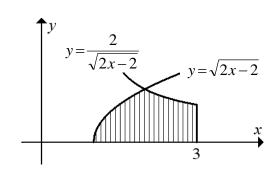
c)
$$\int_{1}^{2} x^{2} \sqrt{x-1} \ dx$$
.

4) Encontre a área das regiões indicadas:







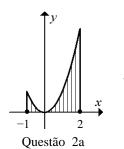


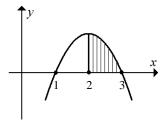
Respostas.

1) a)
$$\frac{9}{4}$$
 b) $\frac{4}{15}$ 2) a) 3 b) $\frac{2}{3}$.

3) a)
$$9-3\sqrt{3}$$
 b) $\frac{7}{8}$ c) $\frac{2}{7}+\frac{4}{5}+\frac{2}{3}=\frac{184}{105}$.

4) a)
$$\frac{11}{6}$$
 b) $\frac{37}{12}$ c) $\frac{140}{3}$ d) $\frac{\sqrt{8}}{3} + (4 - 2\sqrt{2}) = \frac{12 - 4\sqrt{2}}{3}$.





Questão 2b